1 / 1 *WPAT - ©Thomson Derwent*

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Title :

Polyester resin, useful for the production of alkyd resin emulsions, is prepared from a polyhydroxyl compound, an alkoxy polyethylene glycol, a cycloaliphatic dicarboxylic acid and a fatty acid.

Derwent Classes :

A23 A82 F06 F09 G02 M13

Patent Assignee :

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6

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AT9901737 A 20001215 DW2001-29 C09D-007/12 16p *
AP: 1999AT-0001737 19991015

EP1092742 A2 20010418 DW2001-29 C08G-063/668 Ger
AP: 2000EP-0120244 20000927
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Abstract :

AT9901737 A

NOVELTY - A water soluble or dispersible polyester is prepared by polycondensation of a polyhydroxyl component, preferably a sugar alcohol having more than 4C atoms and at least 5 hydroxyl groups per molecule; an alkoxy polyethylene glycol having 1-4C atoms in the alkyl group and a number average mol. wt. of 500-2000 g/mol; a cycloaliphatic dicarboxylic acid and a 10-22 C fatty acid.

DETAILED DESCRIPTION - A water soluble or dispersible polyester (I), an emulsifier for alkyd resins (II), is prepared by polycondensation of:

(A) a polyhydroxyl component, preferably a sugar alcohol having more than 4C atoms and at least 5 hydroxyl groups per molecule;

(B) an alkoxy polyethylene glycol having 1-4C atoms in the alkyl group and a number average mol. wt. of 500-2000 g/mol;

(C) a cycloaliphatic dicarboxylic acid; and

(D) a 10-22 C saturated or unsaturated fatty acid.

INDEPENDENT CLAIMS are included for:

(i) a process for the production of (I) by mixing the components, optionally in the presence of a catalyst at 160-250 deg. C, removal of the byproduct water by distillation, an inert gas stream or by addition of an azeotropic additive, optionally with distillation under reduced pressure;

(ii) an aqueous alkyd resin emulsion comprising 70-95 wt.% alkyd resin (II) and 5-30 wt.% polyester (I); and

(iii) a water diluteable paint or lacquer containing the alkyd resin emulsion.

USE - The alkyd resin emulsion is useful as a binding agent for coatings for textiles, mineral materials, metal and wood. (claimed).

ADVANTAGE - The polyester emulsifier (I) enables the production of alkyd resin emulsions having a high solids content of at least 55-60 %. (Dwg.0/0)

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